

SAN FRANCISCO

OAKLAND

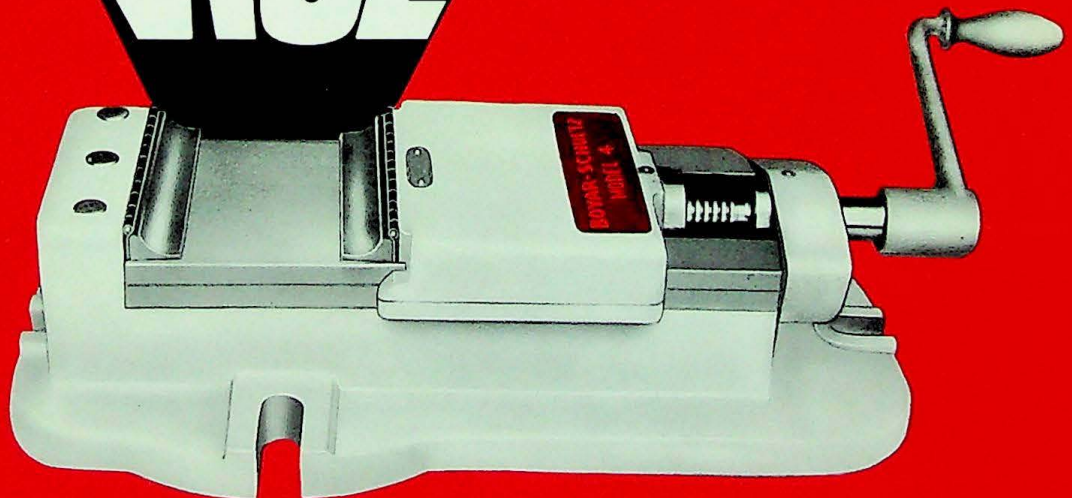
HAVEN

MACHINERY & SUPPLY CO

SACRAMENTO SAN JOSE

BOYAR-SCHULTZ

**PULL-
DOWN
VISE**



Boyar-Schultz CORPORATION

2000 SOUTH 25th AVENUE
BROADVIEW, ILLINOIS

Boyar-Schultz **PULL-DOWN VISE**

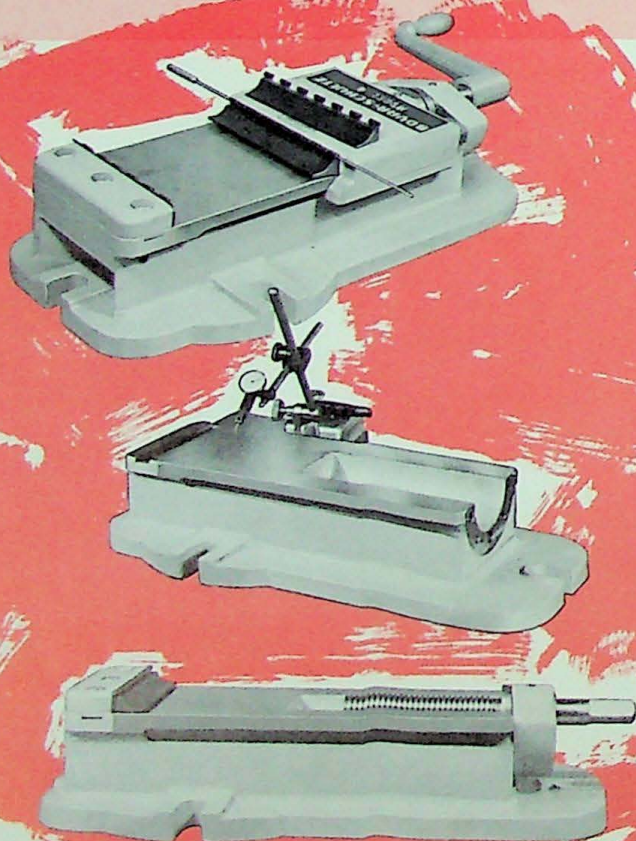
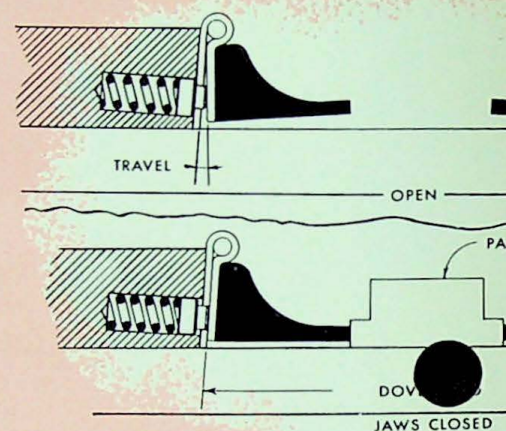
SPRING-LOADED JAWS SEAT WORK FIRMLY

ELIMINATES — PARALLELS • HAMMERING • BUCKLING • CHECKING

Hinged "PULL-DOWN" jaws rest against four spring-loaded buttons. The jaws exert a 100 lb. downward pressure on the work as they close. The jaws stop moving down when their heels are seated into a 4° dovetail as the vise is tightened. In the clamped position, the work is pulled down securely against the vise base . . . the jaws are locked down and cannot be forced upward. When the vise is opened, the jaws move upward and the work is released.

Jobs that took minutes to locate and clamp, now take only seconds with the BOYAR-SCHULTZ "PULL-DOWN" VISE. Work is automatically clamped with its bottom surface parallel to the vise base . . . mutilation of the work piece due to hammering is eliminated. Pull down pressures are always uniform resulting in greater accuracy of work location.

The BOYAR-SCHULTZ "PULL-DOWN" VISE can be used in the Tool Room or on production runs. Standard or special jaws can be installed in seconds . . . jaws flip back for easy cleaning. Sturdy, rugged design coupled with the finest materials and workmanship assure long, trouble-free service.



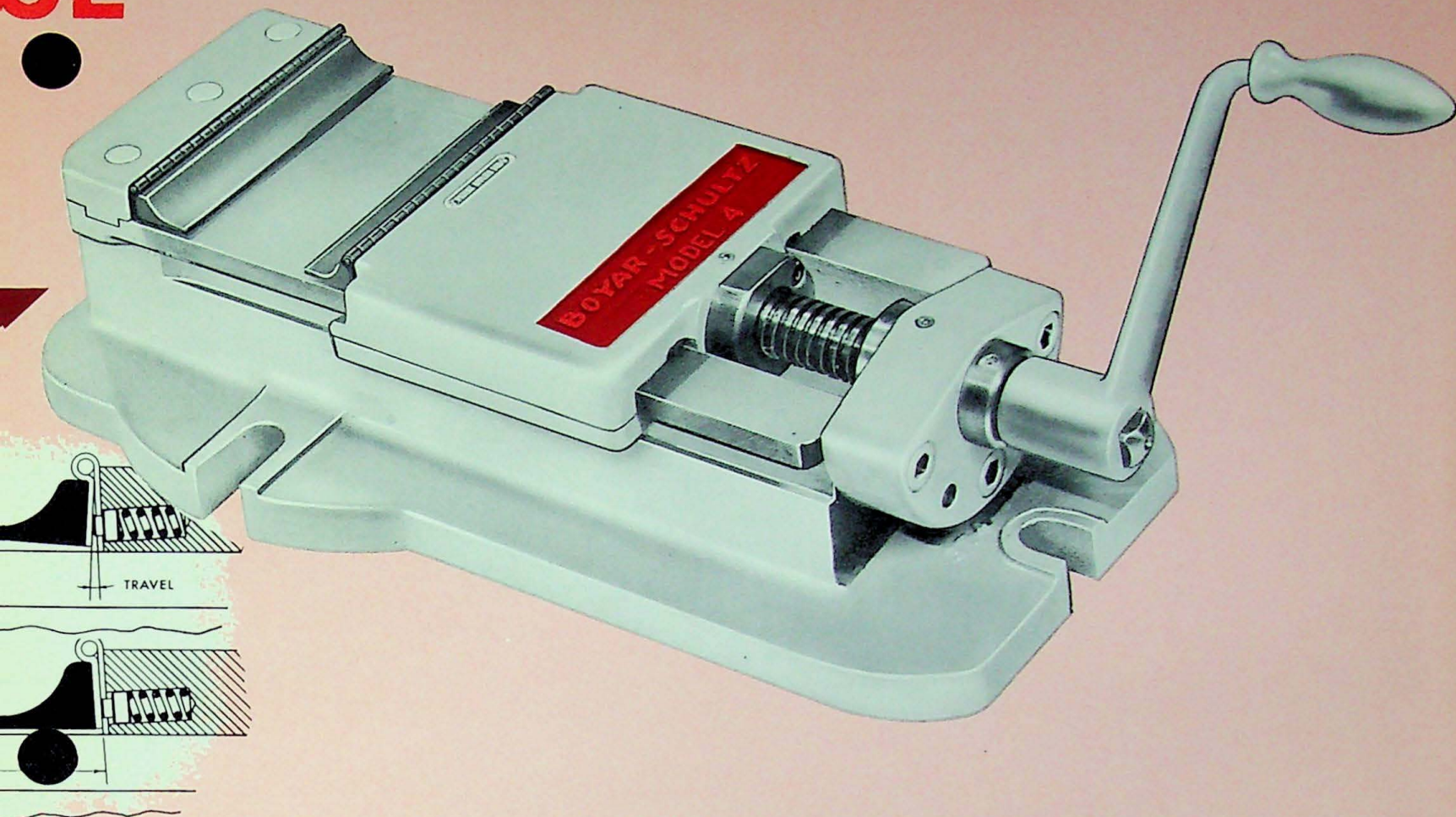
INTERCHANGEABLE JAWS—Designed for quick interchange of standard or special jaws by simply removing hinge pin with pin extractor furnished. **EASY TO CLEAN**—Simply flip back the hinged jaws and brush away chips or shavings. Return jaws to working position and vise is ready for use. No loose parallels or hold down bars to clean.

ACCURATE, FLAT BASE—Each vise base is surface ground top and bottom to within .0003. This high degree of precision assures accurate seating of every work piece.

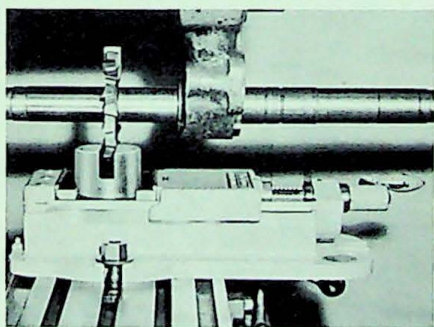
LEAD SCREW—Recessed into base on a direct line with the clamping position of the jaws for maximum rigidity and strength. Lead screw precision ground for smooth positive clamping action and long life.

BUILT TO BOYAR-SCHULTZ STANDARDS

SE

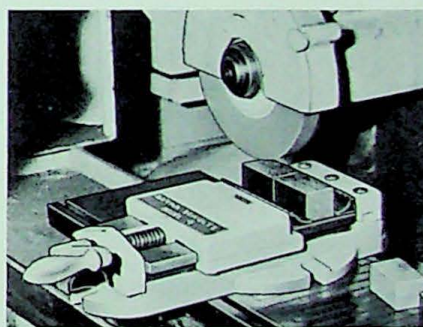


APPLICATION



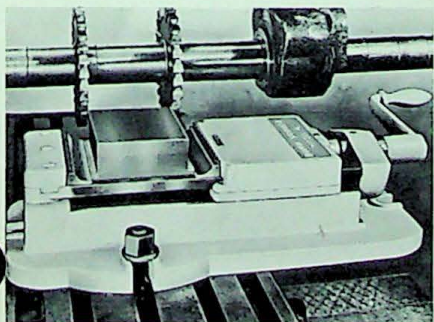
CIRCULAR OR IRREGULAR PARTS

Jaws can be machined to fit any circular or odd shaped piece. Jaws always seat the work accurately to the vise.



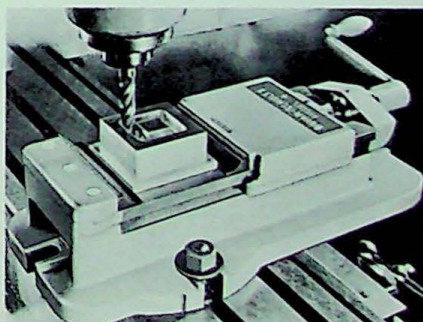
SURFACE GRINDING

Holds irregular or non-magnetic parts accurately, firmly with bottom surface of work parallel to precision ground vise base.



STRADDLE MILLING

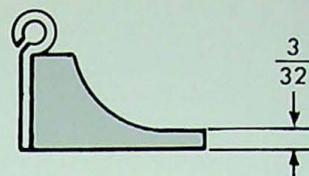
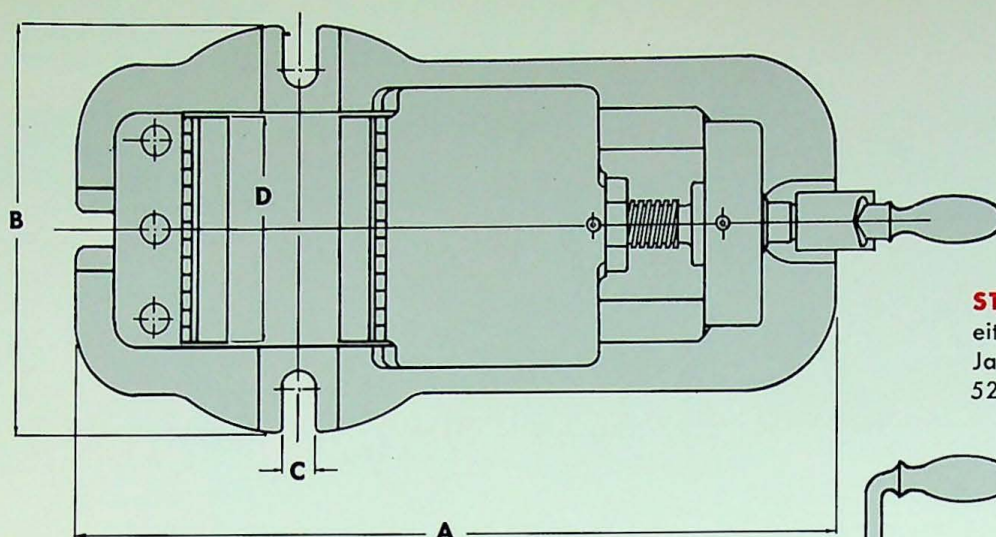
Standard jaws grip the work $\frac{1}{8}$ " from the bottom, permitting easy milling of sides down to the $\frac{1}{8}$ " shoulder.



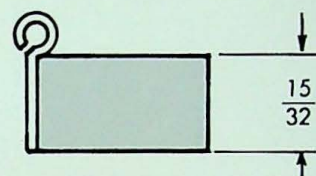
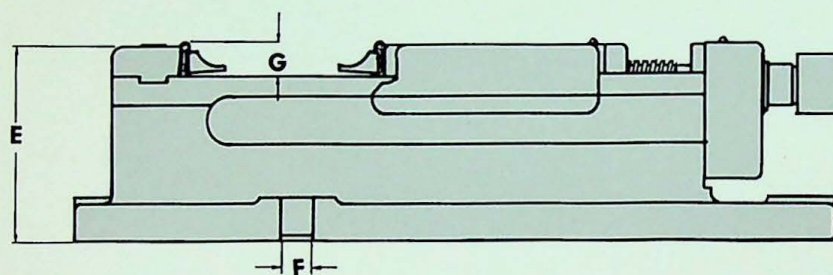
CAVITY MILLING

Work accurately located from bottom surface without hammering. A real time saver in die and mold work.

DS OF QUALITY AND WORKMANSHIP.



STANDARD JAWS will fit either Model 3 or 4. Width of Jaws . . . 5". Hardness . . . 52 RC.



HIGH JAWS will fit either Model 3 or 4. Width of Jaws . . . 5". Hardness . . . 40 RC.

MODEL	CAPACITY	A	B	C	D	E	F	G
No. 3	0" to 3"	13 ³ / ₄	7 ³ / ₁₆	⁹ / ₁₆	5	2 ¹⁵ / ₁₆	⁵ / ₈	³ / ₄
No. 4	0" to 4"	17	8 ⁷ / ₈	³ / ₄	5	4 ¹ / ₄	1 ¹ / ₁₆	³ / ₄

Capacity with Extension Block, (Model No. 4 only) 2" to 6"

ACCESSORIES



SWIVEL BASE

Graduated in 360° providing accuracy at any angle. Sturdy and rigid, base is furnished with clamping bolts, nuts, and washers. Swivel Base is optional with Model 3 or Model 4.



EXTENSION BLOCK

Increases the capacity of the Model 4 Vise to 6". Installed or removed in minutes. No machining necessary. Fits only Model 4 "PULL-DOWN" Vise.

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